April-16-13 12:35:01 PM

99932

Page 1

Item ID: 646.4001 Accept *N900040100* Setup Start **Revision ID:** AS350 Cable Cutter Item Name: **Start Date:** 4/16/13 Start Qty: 1.00 *1* **Cust Item ID:** Required Date: 4/30/13 Req'd Qty: 1.00 **Customer:** Reference: Process Plan: MLJ Run Approvals: Date: 1304-/6 Tooling: Date: Date: SPC (Y/N): Date: Sequence ID/ **Operation** Set Up/ Tool # Plan Tool ID Reject Accept Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp Draw Nbr **Revision Nbr** 646.4000 Α 100 0.00 *100* DOCUMENT CONTROL DC Memo 0.00 Document Control Photocopy bluefile & type labels per PPP 646.4001 110 Pick Kit 0.00 *110* Packaging Memo 0.00 Packaging 120 QC4-100% Inspect kits for completeness 0.00 *120* 0.00 Memo Quality Control

												DQA:	Date:	• · · · · · · · · · · · · · · · · · · ·
NCR:	Yes	/ No					WORK ORDER NON-C	O	VFOR	MANCE / UPDATE		•		
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		Cracks					Broken/Damaged		Inspecti	on Incomplete		Part Incorred	rt 🗆	Weld
	Crushed/Crimped						Burrs		Instruct	ions Incomplete/Unclear	Г	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs						Contamination		Mainte	nance		Part Moved		-
	Heat Treat						Countersink		Mislabe	led		Positioned V	/rong	
	Inspection Strip in Tube						Cut Too Short		Misread			Power Loss/	Surge	Other
	Ripples in Bend						Drill Holes		Offset			_		
	Torque Waves in Extrusion						Drawing		Out of 0	Calibration				
	Turning Sequence					Г	Finish		Out of S	equence				
	Turning Sequence Wave/Twist in Tube						Folio	Γ	Outside	Dimensions				

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Quality Control

99932

Page 2

April-16-13 12:35:01 PM Item ID: 646,4001 Accept *N900040100* Setup Start Revision ID: Item Name: AS350 Cable Cutter Start Date: 4/16/13 Start Otv: 1.00 Cust Item ID: Required Date: 4/30/13 Req'd Oty: 1.00 Customer: Reference: Run Approvals: **Process Plan:** Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description Run Hours Code Oty Qty Number Stamp 130 0.00 Packaging *130* Packaging Memo 0.00 Packaging Identify and pack for shipping as per PPP 646.4001 Location: 140 QC21- Final Inspection - Work Order Release 0.00 MLJ 13-05-27 QC Memo 0.00

MF 135.74

											DQA:	Date	2: 0. 2 1
NCR:	Yes	/ No					WORK ORDER NON-C	O	NFORM	MANCE / UPDATE			
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Nork Ord	or.						DISPOSITION			AGAINST D	EPARTMENT	/PROCESS	-
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		Wave/Twi	ist in Tub	e e			Folio		Outside	Dimensions			

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:35:05 PM

Work Order ID: 99932

99932

Parent Item:

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

Component Item ID/ tem Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
46.3301		Manufactured	No				Each	25.0000					1
तियति अअणि व pper Cutter Assembly	*								**			0	,
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	M			ST139A			7						
	.				125083		7		_		_		
				ST545			18		-	\ <u> </u>	> M	,	
.3001				Ģ	93247		18		-7	1324) (F)	_	/
242 2224	ka.	Manufactured	No				Each	17.0000		I	_		
ති46 - 3(0)(0)¶ wer Cutter Assembly	*								**			5	
	\bigcirc			Location		Loc C	<u>)ty</u>	Loc Code					'
7	7			ST139A			9						
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		,		ST139A			6						

125083

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Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Fraining Unapproved			•										·			
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	ŀτ	Turning Sequence				1	Finish	1	Out of 9	Sequence						

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

April-16-13 12:35:05 PM

Work Order ID: 99932

99932

Parent Item:

646,4001

*646 400

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

Bracket

646.3510

646.3810

Manufactured

Each 8.0000

Manufactured

Manufactured

Manufactured

Location Loc Qty ST139A 93300

3.0000

Each

Each

Each

Each

Loc Code

Location ST139B

Loc Oty 125083 3 Loc Code

2.0000

646.3511

Manufactured No

No

Location ST 125023

125083

125083

Loc Oty 2 2 Loc Code

1.0000

646.3512

Location ST139A

Loc Qty

Loc Code

24.0000

646.3513

Location ST139A

Loc Qty 24 24 Loc Code

120U83 N

NCR:	Yes	/ No					WORK ORDER NON-C	100	NFORM	MANCE / UPI	DATE	QA Closed:	Date	,
Nork Ord	er:						DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part I	•						Rework Scrap Use-as-is Work Order Update		I Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
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	Heat Treat						Countersink		Mislabe		 	Positioned V	Vrong	,
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	Torque Waves in Extrusion						Drawing		i	Calibration				
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DQA:

Date:

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Required Date: 4/30/13

Required Oty: 1.00

April-16-13 12:35:05 PM

Work Order ID: 199932

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

NAS1149F0332P

Purchased

MS21042L3

Purchased

No

No

99932 *646 4001*

ST506

123900

124291

Start Date: 4/16/13

Start Oty: 1.00

8,710.000 **

Loc Code

Each

Location Loc Oty GA 182 122063 182 ST294 158 122063 158 ST295 3 123352 3 st510 8367 123900 8367 Each 4,780.000

Location Loc Qty FP001 3 122141 3 GA 119 122452 119 ST314 268 117885 32 119017 55 119075 138 123265 43

4390

974

3416

Loc Code

											DQA:	Date:	•
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Nork Orde	ar.						DISPOSITION			AGAINST DE	EPARTMENT,	PROCESS	
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Root		Date	Ston	Otv	De		L ption of work order update or Non-conformance	1	nitial ief Eng	Action Description	Sign & Date	Verification	QC Inspector
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		Centre No	ot Concer	ntric to	o/s		BOM/Route		Hardwa	are	Over/Under	tolerance	Temperature/Cure
	Centre Not Concentric to O/S Cracks						Broken/Damaged		Inspect	ion Incomplete	Part Incorre	ct	Weld
	Crushed/Crimped.						Burrs		Instruct	tions Incomplete/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs						Contamination		Mainte	enance	Part Moved		
	Heat Treat					L	Countersink		Mislabe	eled	Positioned V		7
	Inspection Strip in Tube						Cut Too Short		Misread	d	Power Loss/	Surge	Other
	Ripples in Bend						Drill Holes	L	Offset				
į	Torque Waves in Extrûsion					L	Drawing			Calibration			
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		Wave/Tw	ist in Tub	e			Folio		Outside	e Dimensions			

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April-16-13 12:35:05 PM

Work Order ID: 99932

99932

Parent Item:

646.4001

646 4001

Location

ST139A

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13 Start Qty: 1.00

Required Date: 4/30/13 Required Qty: 1.00

646.3110

Manufactured

125083

Each 6.0000

646.3710

Manufactured

Manufactured

Manufactured

No

No

Loc Oty

Loc Code

6

Each 22.0000

Location ST425

97175

Loc Qty 22 22

Each

Each

5.0000

Loc Code

646.3210

Location

ST538 93488

Loc Oty 5 5

Loc Code

7.0000

Loc Code

3208/ W/3/0/03

646.3713

Location ST139A

93208

Loc Oty

7 7

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Shop Packet Print

Page 4

NCR: Y	'es	/ No					WORK ORDER NON-C	O	NFORI	MANCE / UPI	DATE	QA Closed:	Date:	
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		Centre No	at Concer	ntric to	0/5	-	BOM/Route	\vdash	Hardwa	re	<u> </u>	Over/Under	tolerance	Temperature/Cure
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	Cracks Crushed/Crimped					-	Burrs			ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Crushed/Crimped. Cuffs					-	Contamination		Mainte			Part Moved	· _	
Ì	Heat Treat						Countersink		Mislabe	led		Positioned V	Vrong	
	Inspection Strip in Tube						Cut Too Short		Misread	ł		Power Loss/	Surge	Other
	Ripples in Bend						Drill Holes		Offset			_		
1		Torque W		xtrusio	n]		Drawing	П	Out of (Calibration				
1	Turning Sequence						Finish		Out of 9	Sequence				
Ī	Turning Sequence Wave/Twist in Tube						Folio		Outside	Dimensions				

DQA:

Date:

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:35:05 PM

Work Order TD: 99932

Parent Item:

646.4001

Parent Item Name: 3 AS350 Cable Cutter

99932

646 4001

MS24694-S51

Purchased

No

Start Date: 4/16/13 Start Qty: 1.00

108.0000

Required Date: 4/30/13

Required Oty: 1.00

Purchased

No

116805 123741

Location

ST303

107 Each

108

Loc Qty

Each

95.0000

Loc Code

Loc Code

**

AN3-4A

AN3-13A

Purchased

No

Location Loc Qty ST351 45 104746 15 120910 30 ST512 50 123759 50 Each

453.0000

Loc Code

Location Loc Qty ST350 318 120308 80 122814 38 124858 200 ST512 135 120770 134 123900

NCD.	Voc	1	No
NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA	A: Date: _	
QA Close	d: Date:	
DEPARTMEN	T/PROCESS	
 	Water Jet rod. Eng. Coor. ore/Packaging Supplier	Engineering Quality Other
Sign & Date	Verification	QC Inspector

										QA Closed:	Date:	
Work Order:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part No NCR No			`		Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	a a	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				De	scription of work order update		nitial	Ac	tion	Sign &	· · · · · · · · · · · · · · · · · · ·	
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling			\ _									
Operator Material Setup	-											
Other Process	1											
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1					· · · · · · · · · · · · · · · · · · ·	FAUL	T CATE	GURY				
Landing	Bending Centre No	ot Conce	atric to	0/5	General Bend BOM/Route	-	Grain Hardwa	ro		Ovalized Over/Under	tolerance	Pressure/Forced Temperature/Cure
	-	or concer	itile to	0,3	Broken/Damaged	-	(on Incomplete		Part Incorre		Weld
	Cracks Crushed/Crimped.				Burrs	-	1	ions Incomplete/	'Unclear	Part Lost/M	ļ 	Wrong Stock Pulled
	┥				Contamination	_	Mainte	•		Part Moved	_	
	Heat Trea	•	-		Countersink		Mislabe	led		Positioned V	Vrong	_
	Inspectio	n Strip in	Tube		Cut Too Short		Misread	i		Power Loss/	Surge	Other
	Ripples in	Bend			Drill Holes		Offset					
<u> </u>	Torque Waves in Extrusion Drawing						ł	Calibration				
	Turning S				Finish		1	Sequence				
1_	Wave/Tw	ist in Tub	e		Folio		Outside	Dimensions				

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:35:05 PM

Work Order ID: 99932

99932

No

No

Parent Item:

CR3213-5-3

MS20470AD5-5.5

646.3711

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Purchased

Purchased

Manufactured

Start Date: 4/16/13

Required Date: 4/30/13

**

Start Qty: 1.00

Required Qty: 1.00

Location ST329

123785

Loc Qty 300 300

Each

741.0000

Loc Code

300.0000

Rivet

Location ST336

123425

Loc Code

741 741

Each

Each

2.0000

Manufactured

Location ST139B

125083

Loc Oty 2

Each

Loc Qty

Loc Code

2.0000

Loc Code

646.3712

Location ST139B

125083

Loc Qty 2 2

April-16-13 12:35:06 PM

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Page 6

NCR: Y	es / No					WORK ORDER NON-C	100	NFORM	MANCE / UPE	DATE	QA Closed:	Date	e:
Work Orde	r:					DISPOSITION				AGAINST DE	PARTMENT,	_	
Part N	0					Rework Scrap Use-as-is		ı	Skid-tube Machining noforming	Crosstube Small Fab Finishing	-	Water Jet d. Eng. Coor. e/Packaging	Engineering Quality Other
NCR N	0					Work Order Update]		Large Fab	Composite]	Supplier	
Root				De	scri	ption of work order update	1	nitial	Act	ion	Sign &		
Cause	Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC inspector
Doc/Data													
quip/Tooling		ļ											
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Ĺ	Bending					Bend		Grain			Ovalized		Pressure/Forced
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	Cracks					Broken/Damaged		Inspecti	on Incompl <u>e</u> te		Part Incorre	ct _	Weld
	Crushed/	Crimped.				Burrs		Instruct	ions Incomplete/U	Inclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs]		Contamination		Mainte	nance		Part Moved		
ſ	Heat Treat					Countersink		Mislabe	led		Positioned V	Vrong	
Ī	Inspection Strip in Tube					Cut Too Short		Misread	i		Power Loss/	Surge	Other
. [Ripples in Bend					Drill Holes		Offset					
	Torque W	/aves in E	xtrusio	n		Drawing		Out of 0	Calibration				
Ī	· ·			1		Finish		Out of S	Sequence				
	Turning Sequence Wave/Twist in Tube					Folio		Outside	Dimensions				

DQA:

Date:

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Parent Item:

646.3811

April-16-13 12:35:06 PM

Work Order ID: 99932

646.4001

99932

Parent Item Name: AS350 Cable Cutter

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

Each

29.0000

Loc Code

Loc Code

Radius Block

AN3-6A Bolt

MS24694-S55

Purchased

Purchased

No

No

Manufactured

Location ST139A 125083

Location

93224

Loc Qty 29 9 20 Each

Loc Oty

438.0000

125083 **

ST350 300 124296 300 ST351 61 117441 34 121166 13 122993 10 123831 4 ST512 77 122814 77 Each

92.0000

**

13-04-36

Location ST303

124296

Loc Oty 92 Loc Code

													,	, ,
											DQA:	Date	2:	• ;_
NCR: Y	es / No					WORK ORDER NON-O	100	VFOR	MANCE / UPI	DATE				
											QA Closed:	Date	2:	
Work Orde	r·					DISPOSITION				AGAINST D	EPARTMENT,	/PROCESS		,
WOIR Orac	'·					Rework	7		Skid-tube	Crosstube	7	Water Jet	Engine	ering
Part N	0.					Scrap	1	1	Machining	Small Fab	Pro	d. Eng. Coor.		iality
					Ī	Use-as-is]	Thern	noforming	Finishing	Rec/Stor	re/Packaging	c)ther
NCR N	0				-	Work Order Update]		Large Fab	Composite		Supplier		
Root				De	scri	ption of work order update		Initial	Act	tion	Sign &			
Cause	Date	Step	Qty		(or Non-conformance	Ch	nief Eng	Desci	ription	Date	Verification	QC In	spector
Doc/Data														
Equip/Tooling														
Operator	_													
Material	_			1										
Setup		-												
Other														
Process							-							
Supplier														
Training	-													
Unapproved			<u> </u>				ΔШ	T CATE	L	· 		<u> </u>	.	
Landin	ıg Gear					General		·						
Γ	Bending					Bend		Grain			Ovalized	Γ	Pressure/	Forced
Ī		ot Conce	ntric to	o/s		BOM/Route		Hardwa	re]	Over/Under	tolerance	Temperat	ure/Cure
ļ	Centre Not Concentric to O/S Cracks					Broken/Damaged	\vdash	Inspecti	on Incomplete	<u> </u>	Part Incorre	ct	Weld	
Ī	Crushed/Crimped.					Burrs		Instruct	ions Incomplete/l	Jnclear	Part Lost/Mi	issing	Wrong St	ock Pulled
Ī	Cuffs					Contamination		Mainte	nance	[Part Moved		<u> </u>	
Ī	Heat Treat					Countersink		Mislabe	led		Positioned V	Vrong _		
	Inspection Strip in Tube					Cut Too Short		Misread	i		Power Loss/	Surge	Other	
Ī	Ripples in Bend					Drill Holes		Offset		_				
	Torque Waves in Extrusion					Drawing		Out of (Calibration					
[Turning S	Sequence				Finish		Out of 9	Sequence					
	Wave/Tw	vist in Tul	oe .	1		Folio		Outside	Dimensions					

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:35:06 PM

Work Order ID: 199932.

646,4001

99932

Parent Item:

Parent Item Name: AS350 Cable Cutter

646 4001

646.3610

Manufactured

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

18.0000

Loc Code

2.0000

Loc Code

Required Qty: 1.00

125083

646.3714

MS20470AD5-6

646.3812 Gusset Bracket

Location 125083

125083 ST139A

93434

Manufactured

No

No

Purchased

Manufactured

Location ST139A

Location

ST336

Location

ST139B

93175

1,05433

124089

93185

2 Each

2

Loc Qty

Loc Qty

Loc Qty

1756

866

890

Each

Each

Loc Oty

11

11

Each

1,756.000

Loc Code

9.0000

Loc Code

											DQA:	Date	: · · · · · · · · · · · · · · · · · · ·
NCR: Y	es / No					WORK ORDER NON-C	O	VFOR	MANCE / UPI	DATE	QA Closed:	Date	
Work Orde	r:	,				DISPOSITION				AGAINST DI	EPARTMENT	/PROCESS	
Part N NCR N	0.					Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root Cause	Date	Step	Qty	Des		ption of work order update or Non-conformance	1	nitial iief Eng	Act Descr		Sign & Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training													
							AUL	T CATE	GORY				
Landir	Bending Centre No Cracks Crushed/o Cuffs Heat Trea Inspection Ripples in Torque W Turning So	Crimped. It In Strip in Bend Vaves in E	Tube			General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish		Instruct Mainte Mislabe Misread Offset Out of C	on Incomplete ions Incomplete/Unance led	Jnclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct issing	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
.	Wave/Tw			1		Folio	_	1	Dimensions				

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:35:06 PM

Work Order ID: 99932

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99932 *646 4001*

Location

ST139d

125083

No

Start Date: 4/16/13

Start Qty: 1.00

Required Date: 4/30/13

Required Qty: 1.00

**

268.0000

Loc Code

Loc Code

2,194.000

AN3-3A

Manufactured No

Purchased

Location Loc Qty ST350 268 123831 124221 200 124552 61

Each 5.0000

Loc Qty

5

5

Each

Each

**

**

646.3813

MS21047-3

MS20470AD5-7

Purchased No

Rivet

Purchased

No

Location Loc Oty Loc Code Mezz 1384 2655 799 3011 585 ST336 810 123425 810 Each 445.0000

Loc Code

**

13-04-26

Location Loc Oty ST316 445 123268 75 123301 50 123522 320

123522

												DQA:	Date	
NCR: Yes / No						ĺ	WORK ORDER NON-O	O	NFORM	MANCE / UP	DATE	·		
												QA Closed:	Date	
Work Orde	ır.				Ì		DISPOSITION		:		AGAINST DE	PARTMENT	/PROCESS	•
Part N	lo	-				Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite						4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
			···											
Root					Des		otion of work order update	1	nitial		ction	Sign &		
Cause	0	ate	Step	Qty		C	or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data	_													
quip/Tooling					1								٠	
Operator	_													
Material														
Setup	_													
Other					1 1			ļ						
rocess														
Supplier					1 1									
raining														
Jnapproved				ļ				<u> </u>						
							F.	AUL	T CATE	GORY				
Landi	ng Gear	•			1		General		•		_	_	_	_
	Ber	nding					Bend		Grain			Ovalized		Pressure/Forced
	Cer	ntre No	ot Conce	ntric to	O/S	L	BOM/Route	L	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cra	cks			l		Broken/Damaged		Inspecti	on Incomplete		Part Incorre	ct	Weld
	Cru	shed/	Crimped.				Burrs		Instruct	ions Incomplete	/Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
ſ	Cuf	fs					Contamination		Mainte	nance		Part Moved		
	Heat Treat Co						Countersink		Mislabe	eled		Positioned Wrong		
i	Inspection Strip in Tube Cut Too Short Misread						Power Loss/	Surge	Other					
l	Ripples in Bend Drill Holes					Drill Holes	Г	Offset						

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO ReviG

April-16-13 .12:35:06 PM

Work-Order ID: 199932

Parent Item:

CCR264SS3-02

646.4001

Parent Item Name: AS350 Cable Cutter

99932

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

Each 740.0000

Loc Code

Loc Code

Purchased

Purchased

No

No

Location Loc Oty ST327 740 106578 100 123785 240 124231 200 124259 200

Each 1,103.000

**

123785 Pa

646.3715

AN3-5A

Manufactured No

Location Loc Qty FP001 86 122800 86 GA 120 117423 120 ST350 22 120187 22 ST512 875 122416 75 124561 800 Each

12.0000

**

Location Loc Qty Loc Code ST139B 12

93338

12

NCR: Y	es / No				WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date:									
Work Orde	r:					DISPOSITION					ST DEPARTMENT/PROCESS			
Part N						Rework Scrap Use-as-is		t Therm	Skid-tube Machining noforming	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other	
NCR N	0	<u></u>			<u>[</u>	Work Order Update	J		Large Fab	Composite[<u> </u>	
Root Cause	Date	Step	Qty	De		ption of work order update or Non-conformance	ı	Initial Action Chief Eng Description			Sign & Date	Verification	QC Inspector	
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved														
							AUL	T CATE	GORY					
Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion				General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset			Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned N	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other			
	Torque Waves in Extrusion Drawing Turning Sequence Finish				· ·	Out of Calibration Out of Sequence								

Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

Folio

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April-16-13 12:35:06 PM

Work Order ID: 99932

646.4001

99932

Parent Item Name: AS350 Cable Cutter

646 4001

MS27039-1-12

646.3716

MS20426AD5-7

MS24694-S54

Screw

Parent Item:

Purchased

No

Start Date: 4/16/13 Start Qty: 1.00

Required Date: 4/30/13

Required Qty: 1.00

Manufactured

Location Mezz

Location

125083

Location

100993

Loc Qty 169 169

Each

Each 4.0000

Purchased No

Purchased

125083

Loc Qty 4

Each

Loc Code

813.0000

169.0000

Loc Code

ST334

No

101340

Loc Oty 813 813

Each

76.0000

Loc Code

Loc Code

10/340

Location ST303 123900 124859

Loc Oty 76 75

DQA: Date:

NCR:	Yes	/ No				1	WORK ORDER NON-O	100	NFORM	MANCE / UP	DATE			
										QA Closed:	Date:			
Nork Ord	or.	•		•			DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part I						1	Rework Scrap			Skid-tube Machining	Crosstube Small Fab	-4	Water Jet	Engineering Quality
NCR I	No.						Use-as-is Work Order Update		Thern	noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root					De	scri	ption of work order update	Ī	nitial	Ac	tion	Sign &		
Cause		Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
oc/Data									:					
quip/Tooling													,	
perator						l				•				
/laterial														
etup	<u> </u>											{		
ther	<u> </u>									-				
rocess	_					1								
upplier	L													
raining	<u> </u>													
Inapproved			l	1	<u> </u>			<u></u>						
								AUL	T CATE	GORY		44 Y		
Landi	ng (1			.		General		l			٦	Г	70/5
	<u> </u>	Bending				-	Bend	\vdash	Grain		-	Ovalized	 	Pressure/Forced
	_	Centre No	ot Concei	ntric to	O/S	<u> </u>	BOM/Route	-	Hardwa			Over/Under	 	Temperature/Cure
	_	Cracks			-	-	Broken/Damaged	-	1	on Incomplete	,, , <u> </u>	Part Incorred	<u> </u>	Weld
	_	Crushed/	Crimped.		-	\vdash	Burrs	\vdash	1	ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	<u> </u>	Cuffs			- 1	-	Contamination	-	Mainte		_	Part Moved	.,	
	<u> </u>	Heat Trea				-	Countersink	<u> </u>	Mislabe		ļ	Positioned V		٦.,, ٠
	<u> </u>	Inspection		Tube	1	<u> </u>	Cut Too Short						Other	
	<u> </u>	Ripples in			-	-	Drill Holes	Offset					-	
	_	Torque W			n	\vdash	Drawing	-	4	Calibration				
	<u> </u>	Turning S				 	Finish	<u> </u>	4	Sequence				
	l	Wave/Tw	ist in Tub	oe -	1	-	Folio	Outside Dimensions						

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Work Order ID: 99932

Parent Item:

MS27039-1-21

646.4001

Parent Item Name: AS350 Cable Cutter

99932 *646 4001*

Start Date: 4/16/13

Required Date: 4/30/13

Required Qty: 1.00

Start Qty: 1.00

Purchased

No

No

Location Loc Qty ST306 43 115935 43 ST506 300 300

124326

Loc Code

478.0000

343.0000

Each

Each

Loc Oty

115935 A

MS27039-1-20

Purchased

MS27039-1-19

Screw

Purchased No

Location st510

478 124326 478

Each 848.0000

Loc Code

Loc Code

124326

13-04-26

646.3717

Doubler

Manufactured

Location Loc Qty ST306 . 102 122814 2 123522 100 ST506 746 124326 746

Each 2.0000

**

Location Loc Oty Loc Code ST139B

125083

2

Date:

DQA:

NCR: Y	es / No				WORK ORDER NON-	CONF	ORN	MANCE / UPI		QA Closed:	Date:		
						1		·		QA Closed.	Date.		
Work Orde	r·			- 1	DISPOSITION				AGAINST DE	PARTMENT	PROCESS	İ	
WOIK OIGE	·				Rework	7		Skid-tube	Crosstube		Water Jet	Engineering	
Part N	0.				Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality	
				i	Use-as-is	T T		noforming	Finishing		e/Packaging	Other	
NCR N	o				Work Order Update]		Large Fab	Composite		Supplier		
Root		T		Desc	I ription of work order update	Initi	al	Act	tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Chief	Eng	Desci	ription	Date	Verification	QC Inspector	
Doc/Data													
Equip/Tooling													
Operator				-		ĺ							
Material													
Setup]				1							
Other													
Process						1							
Supplier													
Training													
Unapproved													
						FAULT C	ATE	GORY					
Landin	g Gear			_	General					,		7	
	Bending] [Bend	Gra	ain			Ovalized	,	Pressure/Forced	
	Centre No	ot Conce	ntric to (o/s [BOM/Route	Har	rdwa	re		Over/Under	tolerance	Temperature/Cure	
	Cracks				Broken/Damaged	Ins	pecti	on Incomplete		Part Incorre	ct	Weld	
	Crushed/	Crimped.			Burrs	Inst	truct	ions Incomplete/I	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled	
Γ	Cuffs Contamination				Ma	ainte	nance	Ĺ	Part Moved				
Γ	Heat Trea	at			Countersink	Mis	slabe	led		Positioned V	Vrong	_	
Inspection Strip in Tube Cut Too Short				Cut Too Short	Mis	sreac	i		Power Loss/	Surge	Other		
				Drill Holes	Off	set							
	Torque W	/aves in E	xtrusio	1 T	Drawing	Ou	t of (Calibration					
	Turning Sequence Finish					Out of Sequence							
<u> </u>	Wave/Twist in Tube Folio					Ou	Outside Dimensions						

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April-16-13 12:35:06 PM

Work Order ID: 99932

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99932 *646 4001*

Start Date: 4/16/13

Start Qty: 1.00

Required Date: 4/30/13

Required Qty: 1.00

646.3718

Custom Washer

646.3719

Doubler

MS27039-1-10

Screw

Manufactured

Manufactured

Purchased

No

No

Each 45.0000



Location Loc Qty Loc Code ST139A 7 125083 7 ST522 38 93365 38 Each 24.0000 **

Location	Loc Oty	Loc Code
ST139B	24	
125083	24	
	Each	321.0000

**

Location Loc Oty Loc Code GA 100 120449 100 ST305 101 122815 124859 100 ST308 18 123522 18 ST506 102 124326

102

124326/

NCR:	Yes	1	No
INCN.	162	/	INU

DQA: _____

NCR: Y	es / No				WORK ORDER NON-	CONFO	JKIVI	IANCE / UPI	DATE	QA Closed:	Date	:
Work Orde	r·				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N					Rework Scrap		M	Skid-tube lachining	Crosstube Small Fab	Water Jet Engineering Prod. Eng. Coor. Quality Rec/Store/Packaging Other		
NCR N	lo				Use-as-is Work Order Update	-		oforming arge Fab	Finishing Composite			
Root				Des	cription of work order update	Initia	1		tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief E	Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data		i										
Equip/Tooling	_										-	
Operator	_	1										
Material												
Setup	_											
Other												1:
Process	_		· .				ł					
Supplier	_			1 1								
Training		`										
Unapproved	<u> </u>	L	<u> </u>			<u> </u>						
						FAULT CA	ATEG	ORY				
Landin	ng Gear				General				_	7	_	_
	Bending			Į	Bend	Gra			<u> </u>	Ovalized	- L	Pressure/Forced
1	Centre No	ot Conce	ntric to	o/s	BOM/Route	\vdash	dware			Over/Under	⊢	Temperature/Cure
	Cracks				Broken/Damaged	\vdash		n Incomplete		Part Incorre	⊢	Weld
	Crushed/	Crimped.			Burrs	\vdash		ons Incomplete/l	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	Cuffs			Contamination	Ma	inter	nance		Part Moved			
	Heat Treat Countersink				Countersink	Mis	labele	ed		Positioned V	Vrong	· · ·
	Inspection	n Strip in	Tube		Cut Too Short	Mis	read			Power Loss/	Surge	Other
Ripples in Bend				Drill Holes	Offs	set						
	Torque W	aves in E	Extrusio	n 📗	Drawing	Out	t of Ca	alibration				
	Turning S		Finish	Out of Sequence								
ſ	Wave/Twist in Tube				Folio	Out	tside (Dimensions				

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April-16-13 12:35:06 PAI

Work Order ID: -99932

646.4001

Parent Item Name: AS350 Cable Cutter

Parent Item:

99932 *646 4001*

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

672.0000

Loc Code

9.0000

**

**

**



600.0990

600.0991

Magnabond 6398 Part B (One 4 oz can)

600.1012

April-16-13 12:35:06 PM

Sealant (One 6 oz Semkit)

Purchased

Purchased

Purchased

Purchased

No

No

No

No

Location

Location

125051

ST

ST

Location Loc Qty ST351 72 123525 72 ST512 600 115457 100 123352 200

123759 300 Each

Location Loc Oty Loc Code ST 125051 9 Each 9.0000

> Loc Oty Loc Code 125051 9 Each 9.0000

> > Loc Oty Loc Code

Each

20

NCR: Y	es / No				WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date:								
Work Orde	r:				DISPOSITION	ا ا			AGAINST DE	PARTMENT,	/PROCESS Water Jet	Engineering	
Part N	lo				Rework Scrap Use-as-is		ľ	Skid-tube Machining Moforming	Crosstube Small Fab Finishing	Prod. Eng. Coor. Quality			
NCR N	lo				Work Order Update]		Large Fab	Composite	<u></u>	Supplier		
Root				Des	cription of work order update	3	Initial Action Chief Eng Description			Sign & Date	Verification	QC Inspector	
Cause	Date	Step	Qty		or Non-conformance	Cili	ereng	Desc	приоп	Date	vermeation	QC IIISPECTOI	
Doc/Data											-		
Equip/Tooling		ļ									· .		
Operator							-					. .	
Material	\vdash \mid \mid \mid												
Setup													
Other												,	
Process													
Supplier				1 1								İ	
Training			1										
Unapproved		İ											
					F	AUL'	T CATE	GORY					
Landir	ng Gear				General				_		سمم	· ¬	
	Bending			1	Bend		Grain			Ovalized		Pressure/Forced	
	Centre Not Concentric to O/S BOM/Route						Hardwa	re		Over/Under	tolerance	Temperature/Cure	
Ī	Cracks Broken/Damaged						Inspecti	on Incomplete		Part Incorre	ct	Weld	
	Crushed	/Crimped		1	Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/M	issing	Wrong Stock Pulled	
Cuffs					Contamination		Mainte	nance		Part Moved		•	
Heat Treat					Countersink		Mislabe	led		Positioned V	Wrong		
Ī	Inspection	on Strip in	Tube		Cut Too Short		Misread	I		Power Loss/	'Surge	Other	
Ţ	Ripples in Bend Drill Holes					Offset							
Torque Waves in Extrusion Drawing					Drawing	Out of Calibration							

Out of Sequence

Outside Dimensions

DQA:

Date: ____

Turning Sequence

Wave/Twist in Tube

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:35:06 PM

Work Order ID: 99932

99932

No

Parent Item:

600.0129

600.1013

646.3910

646.3911

Shim

646,4001

646 4001

Location

125031

ST

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

128.0000

Purchased No

Purchased

Loc Qty Loc Code

128 128

Each

Each 945.0000 125031

Manufactured No Location Loc Oty Loc Code ST139A 945

125154 945

72.0000

Manufactured

Location Loc Qty Loc Code ST139B 22 125083 22 ST139d

50 93238 50 Each

20.0000

13-04-26

Location Loc Qty Loc Code ST139A 125083 ST139d 19 93362 19

13 93362 Ac

										DQA:	Date:	•
NCR: Yes	/ No					WORK ORDER NON-C	CONFORI	MANCE / UP	DATE	QA Closed:	Date:	
Work Order:			,			DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part No.					-	Rework Scrap Use-as-is Work Order Update	1 1	Skid-tube Machining moforming Large Fab	Crosstube Small Fab Finishing Composite	i	Water Jet od. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Des	scrip	tion of work order update	Initial	Ac	tion	Sign &		
Cause	Date	Step	Qty		0	r Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspec
Doc/Data Equip/Tooling Operator Material Setup Other												

Unapproved **FAULT CATEGORY Landing Gear** General Ovalized Pressure/Forced Grain Bend Bending Temperature/Cure BOM/Route Over/Under tolerance Centre Not Concentric to O/S Hardware Weld Broken/Damaged Inspection Incomplete Part Incorrect Cracks Instructions Incomplete/Unclear Part Lost/Missing Wrong Stock Pulled Crushed/Crimped. Burrs Maintenance Cuffs Part Moved Contamination Positioned Wrong , Mislabeled Countersink **Heat Treat** Other Power Loss/Surge Misread Inspection Strip in Tube Cut Too Short Offset Drill Holes Ripples in Bend Drawing Out of Calibration Torque Waves in Extrusion Out of Sequence Turning Sequence Finish Wave/Twist in Tube Folio **Outside Dimensions**

QC Inspector

Process Supplier Training

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April-16-13 12:35:06 PM

Work Order ID: 99932

Parent Item:

646.3912

646.4001

Parent Item Name: AS350 Cable Cutter

99932

646 4001

Location

ST139B

ST139d

125083

93160

123759

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

646.3913

Manufactured

Manufactured

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No

Location Loc Qty ST139A 22 125083 22 ST139d 51 93423 51

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April-16-13 12:35:06 PM

Work Order ID: 99932

Parent Item: 646.4001

MS27039-1-16

Parent Item Name: AS350 Cable Cutter

99932

646 4001

Start Date: 4/16/13 Start Qty: 1.00

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70.0000

Required Date: 4/30/13

Required Qty: 1.00

Purchased

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MS27039-1-4:6

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INDUSTRIES, INC.							

ENGINEERING CHANGE NUTICE NO 03079

SHEET 1

JF i

DWG NO. 546,4000

REV: A PREPARED N.CAP

DATE: 03/21/11

EFFECT ON DWG ☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY

Mound for a

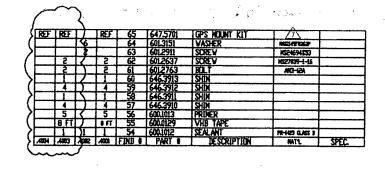
EFF: NEXT ORDER

TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

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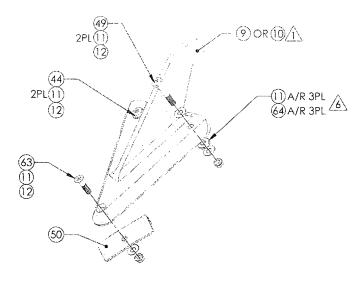
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CHANGE CATEGORY

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03046, 03071, WE SHE AN AFTER INSTALLATION APPLY FAN 54 AAR TO HEE GAPS AND FILLET EDGES 72 NSTALL F/N 14 WITH F/N 52 8 53 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE VENDOR: MCMASTER-CARR P/N 7.59354651 SCREW SCREW DOUBLER 50 646.3814 49 601.7910 48 601.1365 47 646.3717 2527739-1-18 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE VENDOR: R.S. HUGHES P/N 021200-24216 W\$27036-4-10 47 | 646.3717 46 | 646.2718 45 | 646.3717 44 | 601.1948 43 | 601.1952 42 | 601.1956 REUSE FASTENERS FROM F/N 1 DOUBLER 8857 PISSE 1 15 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT M522039 : -00 SCREW /4527039 | 25 41 (601.2829 24574694554 SCREW 40 601.2831 39 646.3716 38 601.1953 RIVEL M\$20428A0.5.7 GAUGE BRACKET 601.1953 646.3715 SCREW STRUT DOUBL M\$27039-1-17 2 34 601,2824 BOLT A143-5A 35 601.2277 34 600.0795 CCentral S MILY OF A TO 235010455 34 6(0,0795 33 601,2565 32 646,3613 31 601,2622 30 646,3812 29 601,2564 84S20470AD5-7 DETAIL A AN3-3A GUSSET BRACKET M520420AGS-28 646.3714 27 646.3610 GUSSE 26 601,2830 SCREW M574694555 DETAIL C 2 25 601,2825 AND-6A 24 646.3811 23 646.3712 22 646.3711 21 601,2832 AS(19470406-5.5 601.2020 601.2823 CR3213-5-3 ANG-4A 601.2827 ANTATIA MS24694551 646.4002 1 6 646.3713 GUSSET 15 646.3210 DOUBLER 13 646,3110 CHANNE 646,4001 LOCKNU MS21042i3 16 | 34 | 11 | 601,1607 WASHER NAC1149502229 10 646.3411 9 646.3410 RH WIPER DEFLECTOR -DETAIL B 8 646.3513 646,351 646.3511 STRUT 64 601,3151 WASHER MAS | 149F0353F 5 646.3610 4 646.3810 3 646.2910 STRUT 63 601.2911 62 601.2637 A\$\$24694553 SCREW 601.2637 SCREW M\$27039-1-16 DEFLECTOR 601,2763 BOLT AN3 12A 2 546,3001 LOWER CUTTER ASSY 1 60 646.3913 SHIM UPPER CUTTER ASSY 646.3301 59 646.3912 MIHZ 646.4003 ASSST WIPER-CORPORATE 1- 58 646.3911 SHIM e re FIND# PARI# MATE CRESNAL DATE (MO-DA-FF) 58-21-68 CREAWN BY CHECKER P. SRAYO APICAL INDUSTRIES NEXT ASSY (S) 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 A\$350 CABLE CUTTERS KIT E CACTECODS 646,4000



DETAIL C LH SHOWN EXPLODED RH OPPOSITE

ORDMAI DA IMO-DA-VEJ GRAWN B7 S. HEBF	CHECKEP CHECKEP CHECKEP	APICAL INC	₹.
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1. Approving National Aviation 3. Form Tracking Number: Page 1 of 3 Authority/Country: **AUTHORIZED RELEASE CERTIFICATE** MG13-078 **FAA/UNITED STATES** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. Shipper # 12443 2608 Temple Heights Drive P.O. # AS350-CCK/PO 1933 1 PQ1886NM Oceanside, CA 92056 Item: 7. Description: 8. Part Number: Eligibility: * 10. Quantity: Serial/Batch Number: 11. Status/Work: 1. **Upper Cutter Assy** 646.3301 N/A 16 119640-3 New 2. **Lower Cutter Assy** 646.3001 20 119737-1 Deflector 646.2910 17 119572-1 Doubler 646.3710 2 113434-1 Strut Doubler 646,3715 114916-7 Gusset 646.3714 113434-3 Doubler 646,3715 113434-4 Shim 646.3911 113080-5 Gusset 646.3713 113434-2 10. **Bracket** 646.3810 113012-4 Support-646.3210. 114263-3-**Gusset Bracket** 646.3812 113579-1 13. Strut Bracket 646.3813 5 112165-3 14. Shim 646.3910 26 114916-5 15. Shim 646.3912 26 114916-6 Channel 646.3110 118257-8 13. Remarks: EXPORT AIRWORTHINESS APPROVAL A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered..... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation Non-approved design data specified in Block 13. 15. Authorized Signature 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/y): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

user/installer before the aircraft may be flown.

FAA Form 8130-3(6-01)

1. Approving National Aviation 3. Form Tracking Number: Page 2 of 3 Authority/Country: **AUTHORIZED RELEASE CERTIFICATE** MG13-078 FAA/UNITED STATES FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. **Shipper # 12443** 2608 Temple Heights Drive PO1886NM P.O. # AS350-CCK/00(933) Oceanside, CA 92056 6. Item: 7. **Description:** 8. Part Number: Eligibility: * Serial/Batch Number: Quantity: 11. 12. Status/Work: 17. Strut 646.3512 N/A 12 111971-3 New 18. Doubler 646.3719 24 117341-6 19. Strut 646.3510 14 117341-2 20. Strut 646,3511 14 117341-3 21. Clip 646.3711 13 117341-1 Clip 646.3712 13 117341-4 23. **Custom Washer** 646.3718 27 117341-5 24. Gauge Bracket 646.3716 15 117953-1 25. Filler 646,3610 17 115914-2 26. Shim 646,3913 17 117953-2 27. Radius Block 646,3811 20 117651-1 .28 Strut-646.3513 11971-1-115105-1:115741-3 29. Bolt 601.2825 192 107245-1, 119183-2 30. Bolt 601.2827 69 106824-1, 114455-1 31. Bolt 601.2763 206 41764-3, 46468-1 32. Screw 601.2830 149 41769-8, 107245-8 13. Remarks: **EXPORT AIRWORTHINESS APPROVAL** A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered..... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation Non-approved design data specified in Block 13. 15. Authorized Signature: 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/v): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

NSN: 0052-00-012-9005

*Installer must cross-check eligibility with applicable technical data.

user/installer before the aircraft may be flown.

FAA Form 8130-3(6-01)

1. Approving National Aviation	2.			3. Form Tracki	ng Number: Page 3 of 3
Authority/Country: FAA/UNITED STATES	AUTHORIZEI				
FAMUNITED STATES	FAA Form 8130-3,	AIRWORTHINES	SS APPROVAL TA	AG	
4. Organization Name and Address: Apical Industries, Inc. 2608 Temple Heights Drive Oceanside, CA 92056	PQ1886NN	м		Shipper # 12443	Contract/Invoice Number:
6. Item: 7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
33. Rivet 34. LH Wiper Deflector 35. AS350 Wiper deflector Ki RH Wiper Deflector Wiper Bracket	601.2831 646.3410	N/A	604 15 4 16 45	76557-10, 107245-7, 115478-4 110777-1 031, 032, 033, 034 118480-1 	New Status Work.
13. Remarks: EXPORT AIRWOR	RTHINESS APPROVAL		L		
B. Bilaterial Ag C. Items are bei	isted in Block 7. are subcompor reement – None ng shipped to Dart Aerospace L ered	td. in Hawkesbury. (ON. Canada.		•••••••••••••••••••••••••••••••••••••••
14. Certifies the items identified a	above were manufactured in confor	mity to			
	d are in condition for safe operation				
☐ Non-approved design dat	a specified in Block 13.	1,			
15. Authorized Signature:	16. Approved/Authoriza	tion No.:			And the state of t
	DMIR 606259-NM	·			
17. Name (Typed or Printed):	18. Date (m/d/y):				
Lisa Mansfield	March 18, 2013			·	
		Jser/Installer Respo			7 - 5. 20 - 5
It is important to understand that	the existence of this document alon	e does not automaticall	y constitute authority	to install the part/component/a	ssembly.
Where the user/installer performs specified in Block 1, it is essential t country specified in Block 1.	work in accordance with the nation hat the user/installer ensures that h	nal regulations of an air is/her airworthiness ac	worthiness authority cepts parts/componen	different that the airworthiness ts/assemblies from the airworth	authority of the country niness authority of the
Statements in Blocks 14 and 19 do accordance with the national regul	not constitute installation certificat ations by the user/installer before t	ion. In all cases, aircra he aircraft may be flow	aft maintenance record vn.	ds must contain an installation o	ertification issued in
FAA Form 8130-3(6-01)	*Installer must cross	check eligibility with app	licable technical data	N.	SN: 0052-00-012-9005

*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

	ENGINEERING CHANGE NOTICE NO 03	079	SHEET 1 DF 1
APICAL	DWG NO. 646.4000 REVI A PREPA	RED N.CAP DATE:	03/21/11 EFFECT ON DWG INC. IN UNINC.
INDUSTRIES, INC.	DWG TITLE: AS350 CABLE CUTTERS K	IT	
	APPROVED BY: ENGR Band MFG David B	who ac Mountele	FEFT NEXT ORDER
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON CREATED FIXED AND CCK WIT		ONS KIT
SHEET 1,	REFERENCE ONLY SHOWN, IS: REFERENCE ONLY SHOWN IS: REFERENCE ONLY SHOW	646,400	MODIBLE SYM PART A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
		4884 4880 ABS 4888 FIND B PARY B	DESCRIPTION MATE SPEC
DOCUMENTS EFFECTED	⊠ MDL ⊠ INSTALL INSTRUC ⊠ ICA	CHANGE CATEGORY BOM O MAJOR X MINOR	DER REVIEW REQUIRED O YES NO